

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR

LYNDO TIPPETT **SECRETARY**

September 6, 2006

MEMORANDUM TO:

Mr. Jon G. Nance, PE

Division Five Engineer

FROM:

Philip S. Harris, III, P.E., Unit Head
Natural Environment Unit

Project Development and Environmental Analysis Branch

SUBJECT:

Wake County, US 64 from New Hope Rd SR 2306 to Existing US 64 near SR 1003; T.I.P. Number R-2547;

Federal Aid Project NHF-DPI-0199(004); State Project

No.: 8.1402202

Attached is the modification to the U. S. Army Corps of Engineers 404 Individual Permit and the special conditions for the 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

Cc:

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Jay Bennett, P.E., Roadway Design

Dr. David Chang, P.E., Hydraulics

Mr. Randy Garris, P.E. State Contract Officer

Mr. Art McMillan, P.E., Highway Design

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. John F. Sullivan, FHWA

Mr. Eric Midkiff, P.E., PDEA Central Region Unit Head

Mr. Chris Murray, Division Environmental Officer

TELEPHONE: 919-733-3141 FAX: 919-715-1501

WEBSITE: WWW.DOH.DOT.STATE.NC.US

PROJECT COMMITMENTS

US 64 from New Hope Rd. SR 2306 to Existing US 64 near SR 1003; Wake County State Project No.: 8.1402202 Federal Aid Project No.: NHF-DPI-0199(004)

TIP No.: R-2547

In addition to the standard Individual Section 404 and 401 Permit Conditions, State Consistency Conditions, NCDOT's Guidelines for Best Management Practices for Protection of Surface Waters, the following special commitments have been agreed to by NCDOT:

Commitments Developed through Permit Modifications

No new permit conditions are stated in the attached permit. All other conditions written into previous Water Quality Certifications and Neuse River Riparian Buffer Certifications for this project still apply.



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

P. O. BOX 1890 WILMINGTON, NORTH CAROLINA 28402-1890

IN REPLY REFER TO A

August 29, 2006

AUG 20 2006

DIVISION OF HIGHWAYS

PDEA-OFFICE OF NATURAL ENVIRONMENT

Regulatory Division

SUBJECT: Action ID 200220819; TIP No. R-2547

Gregory J. Thorpe, Ph.D. Environmental Management Director, PDEA N.C. Department of Transportation 1548 Mail Service Center Raleigh, NC 27699-1548

Dear Dr. Thorpe:

Reference is made to the Department of the Army permit issued on April 25, 2002, for the discharges of fill material in waters of the United States, including wetlands, to facilitate construction of the US 64 Knightdale Bypass (T.I.P. No. R-2547), in the Neuse River basin, Wake County, North Carolina, and the subsequent modifications for additional impacts dated May 4, 2004 & February 16, 2005. Also reference your August 3, 2006 letter requesting modification of the permit, to authorize additional impacts to waters of the United States, primarily for stabilization of banks associated with bridge sites for the project, as Mr. Eric Alsmeyer of my staff observed and discussed with staff of the Department of Transportation, Division 5, at a field meeting on May 22, 2006.

We have reviewed your proposal and have determined that impacts are relatively minor, and will protect the aquatic ecosystem from further impact, and an additional public notice is not necessary. Therefore, the permit is hereby modified to authorize the revised design, as described in your request, and as shown in the attached modified drawings, with impacts of an additional 15 linear feet of stream, 0.01 acre of open water (stream), and less than 0.01 acre of wetlands, and to extend the permit expiration date to December 31, 2007. No additional stream or wetland mitigation will be required for this modification.

It is understood that all other conditions of the permit remain applicable. If you have questions, please contact Eric Alsmeyer of the Raleigh Regulatory Field Office, at telephone (919) 876-8441, extension 23.

Sincerely,

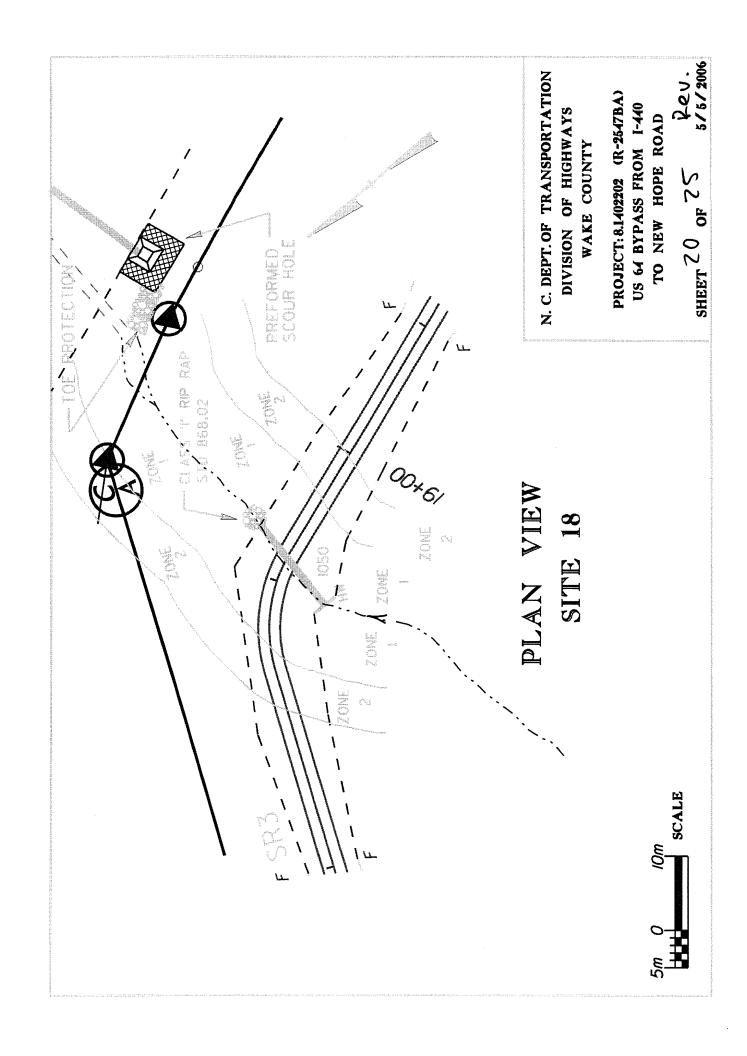
John E. Pulliam, Jr. Colonel, U. S. Army District Commander

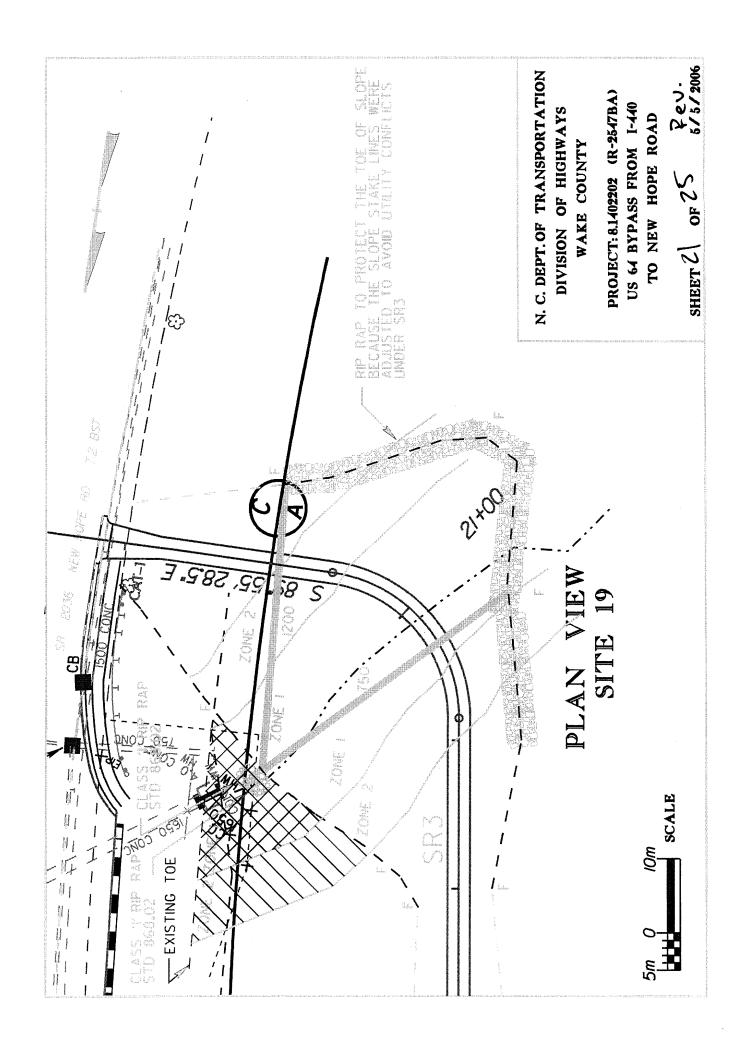
Enclosure

Copies Furnished (without enclosure):

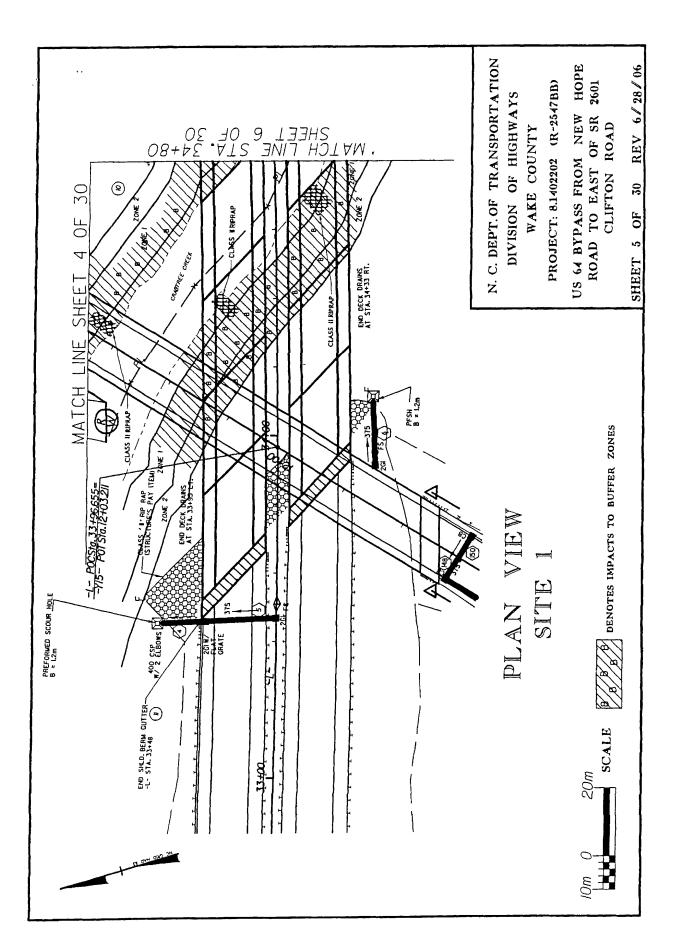
Mr. Clarence Coleman Federal Highway Administration 310 New Bern Ave., Rm. 410 Raleigh, North Carolina 27601-1442

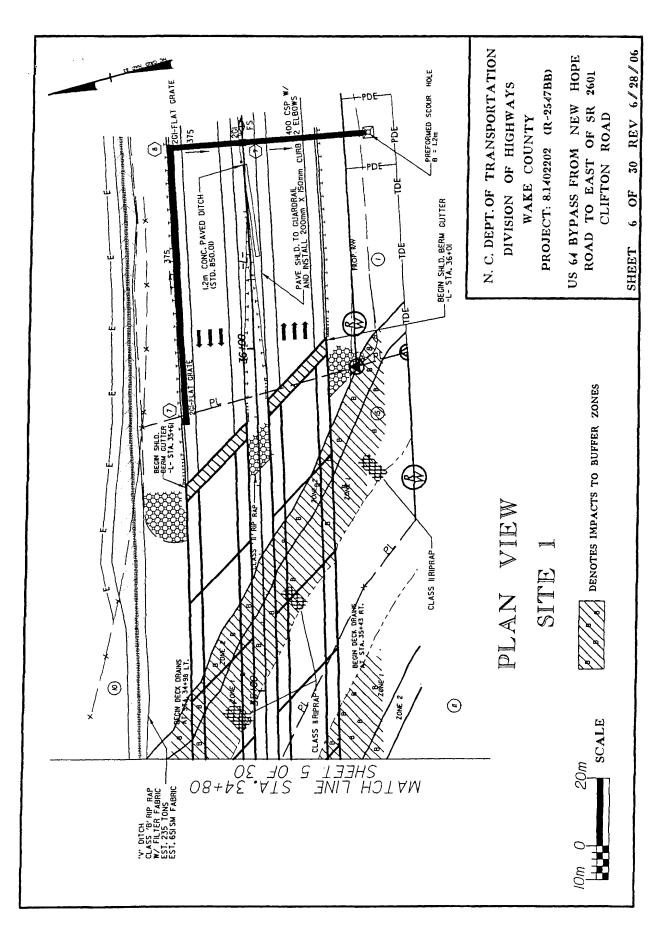
Mr. John Hennessy
Division of Water Quality
North Carolina Department of
Environment and
Natural Resources
1650 Mail Service Center
Raleigh, North Carolina 27699-1650

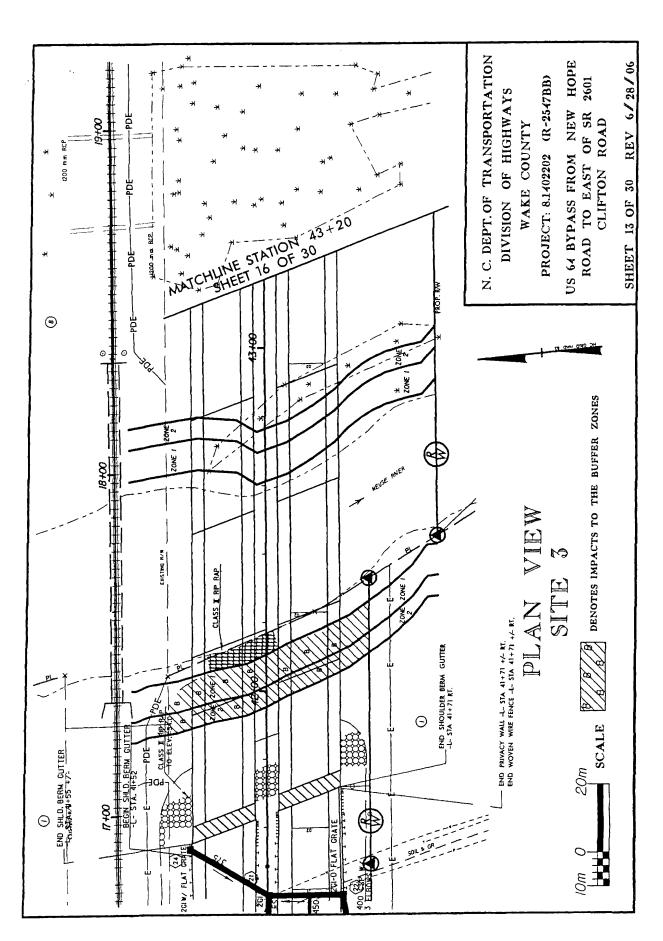




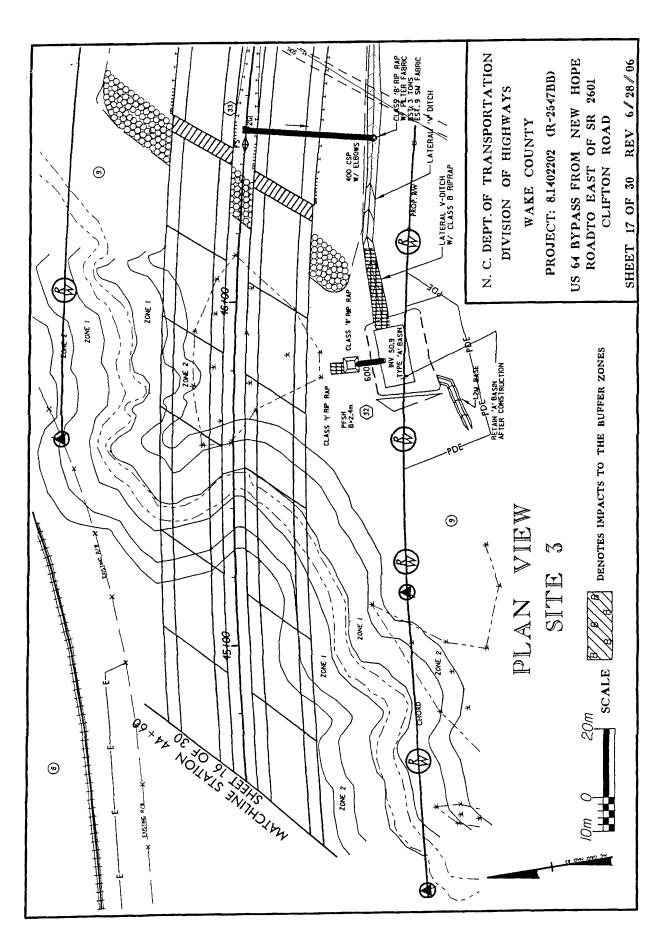
										:				
				≥	1PACT S	IMPACT SUMMARY								
				WETLA	WETLAND IMPACTS	8		SURFACE W	SURFACE WATER IMPACTS	CTS			FILL IN BUFFFR	FFFF
	Station	Structure	Fill In	Temp. Fill	Excavation	Mechanized Clearing	Fill In SW	Fill In SW	Temp. Fill	Existing Channel	Relocated	Enclosed	Zone	Zone
No. 	(From/To)	Size	Wetlands (ha)	In Wetlands (ha)	In Wetlands (ha)	(Method III)		(Pond)	In SW	Impacted (m)	Channel (m)	Channel (m)	1 (ha)	2 (h ₃)
18 18+84	-SR3-	1050 RCP										14	0.024	0.015
19 21+0(21+00 -SR3-	1650 RCP										21	0.040	0.030
19 REV 21+00 -SR3	-SR3	1650 RCP								7.5			0.058	0.052
TOTALS: AS Approved	Approved		0.71	0	0	0.034	0.042	0	0.004	328.5	219	367.5	1853.500	1 210
TOTALS: AS Revised	Revised		0.71						0.004				1	1.224
TOTAL Additions:	ons:									14.8 ft			1457 sf	1518 sf
									N.C. DEPT DIVIS	DEPT. OF TRANSPORTATI DIVISION OF HIGHWAYS	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS			
									WAKE	COUNTY				
									PROJEC	PROJEC 8.1402202	7	R-2547BA		
			-					35 SHEET OF 25	52 =				REVISED	9/15/2004 5/5/2006



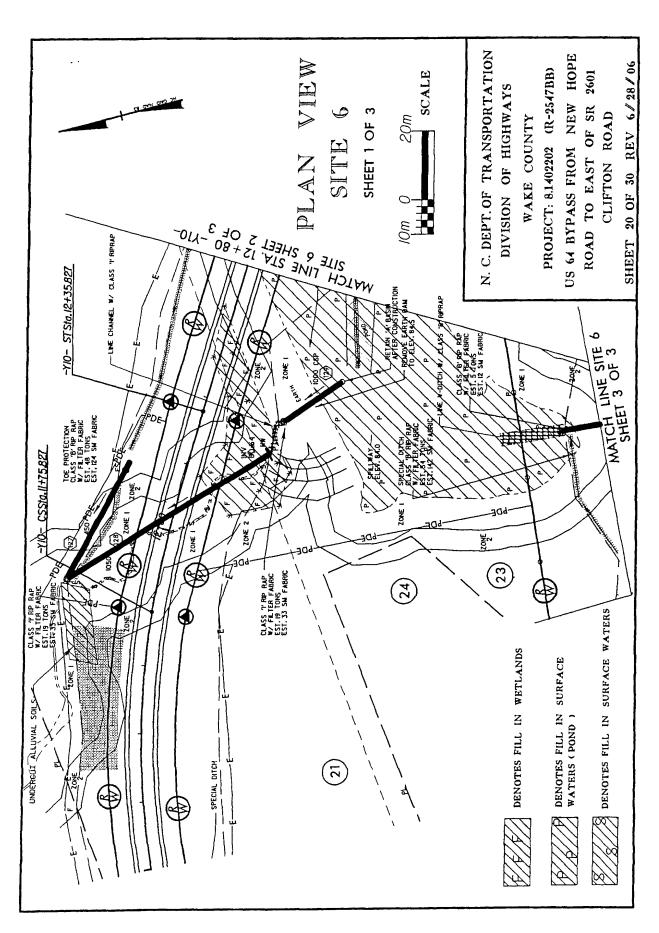




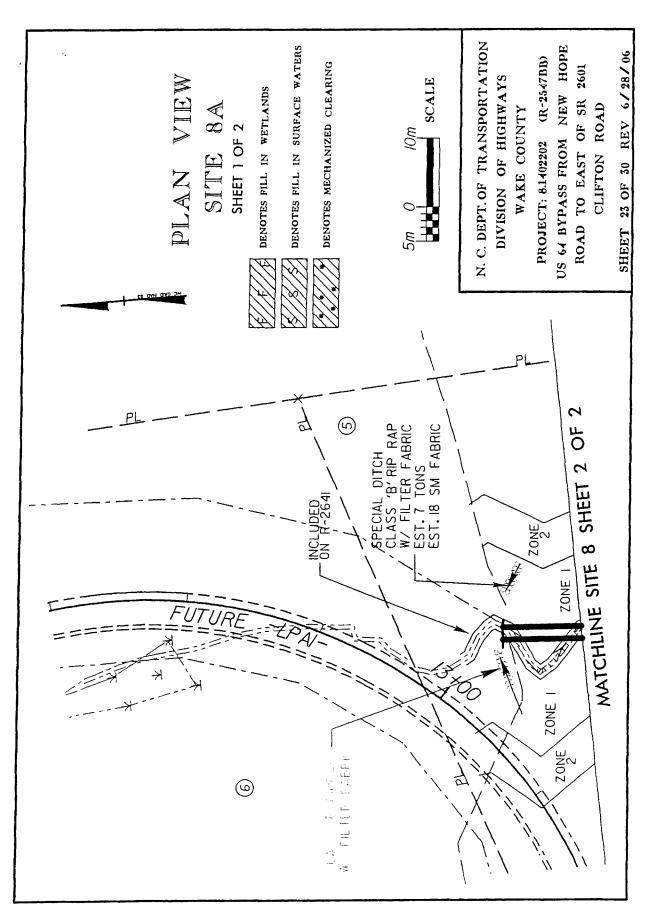
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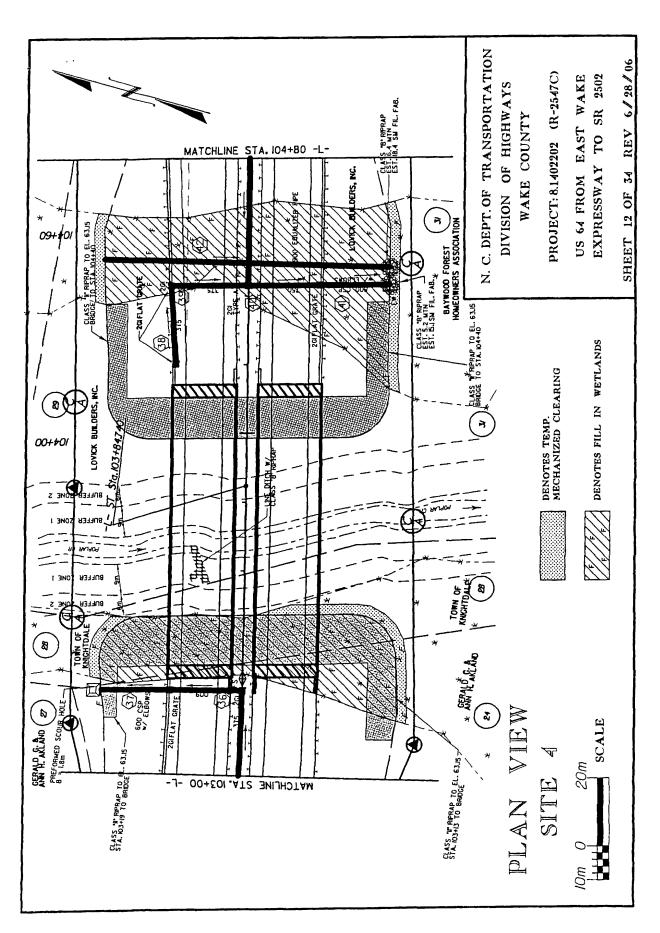


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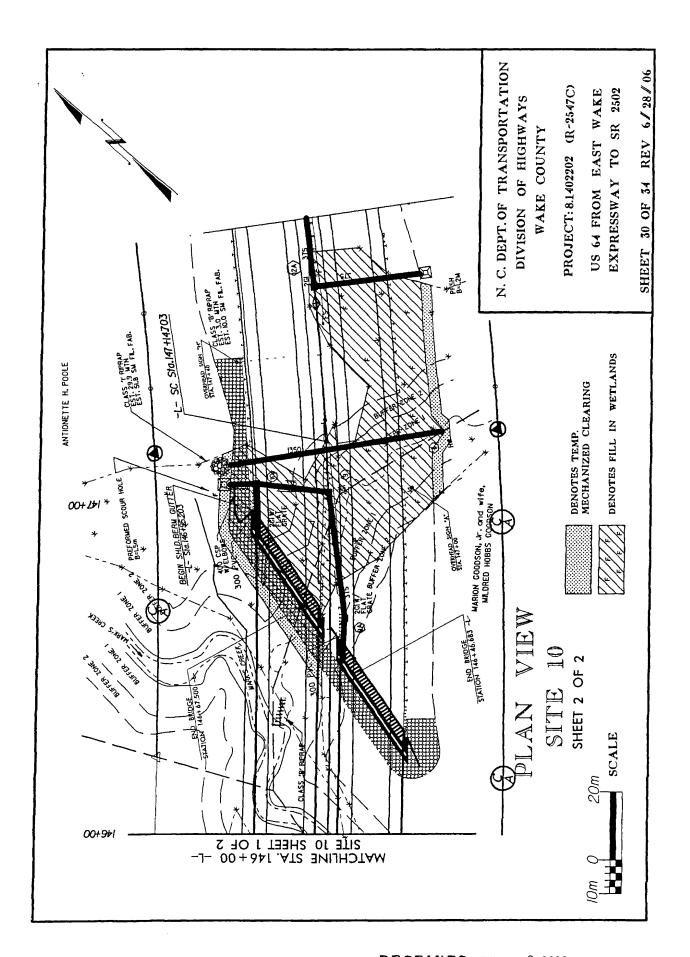


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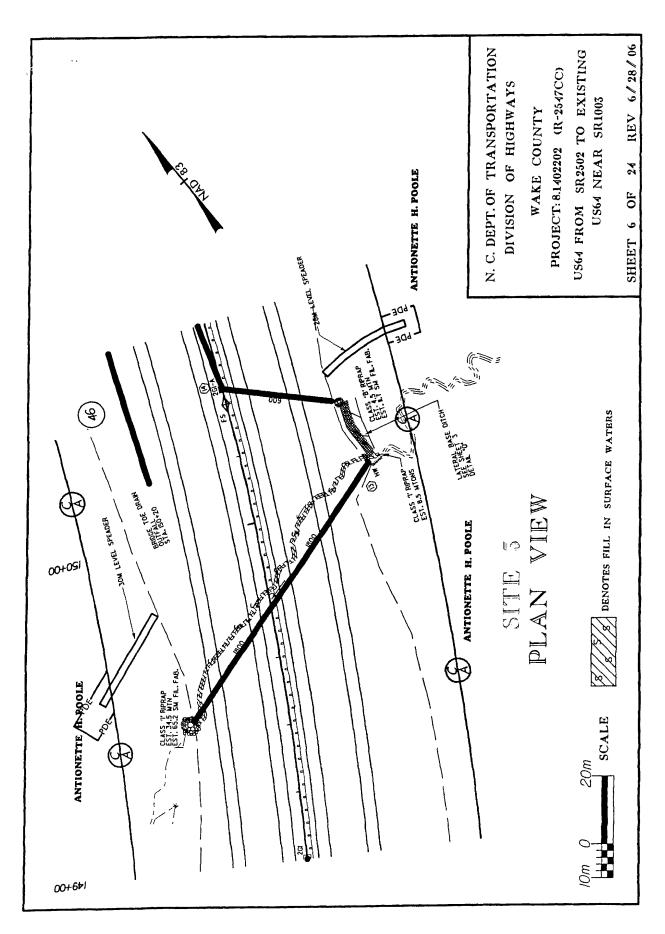
			IMPACT	IPACT SUMMARY	IARY								
Station	Starchine	2	1000		Mechanized	1	>⊱—	VATER IMP,	ACTS Existing			FILL IN BUFFER	UFFER
(From/To)	Size	S	in Wetlands (ha)	in Wetlands (ha)	(Method III) (ha)	(Natural)	Fill In SW (Pond) (ha)	Temp. Fill In SW (ha)	Channel Impacted	Relocated Channel	Enclosed Channel	Zone	Zone 2
33+80-35+80 L	BRIDGE					0.0028			. 23			0.241	0.005
12.70 VIE	Todido												
	BRIDGE					0.0002			4			0.0005	
36+80-38+00 L							1.276					0.157	0.085
41+80-43+20	BRIDGE					0.0012			20			0.043	1000
43+20-43+80	OEI ETEDRBINGED											2	2000
44+60-46+40 L	DELETEDPART OF 3												
11+80-14+40 Y10	1050	0.073				0.005	1.096		93			0.349	0.23
71+0072+00	1500 RCP						0.71					0.239	0 153
12+60-13+00		0.0005			0.003	0.004			136		5		
LPA1 75+20-75+40	2 @ 900 RCP								2		8	0.10	0.0
79+20-79+60 L	1@2.7m X 1.8m RCBC	0.565			0.047	0.017			87		84	0.327	0.217
11+60 TO 12+80 LPC1		0.42			0.04								
	ha/meters	1.06	0.00	0.00	0.09	0:03	3.08		363.00		147.00	1.46	0.79
	ac/leel		0.00	0.00	0.22	0.07	7.62	0.00	- 1191	0	482	3.62	1.96
								N.C. DEPT DIVE	N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS	PORTATION HWAYS			} }
								WAKE	COUNTY				
								PROJEC	PROJEC 8.1402202		R-2547BB		



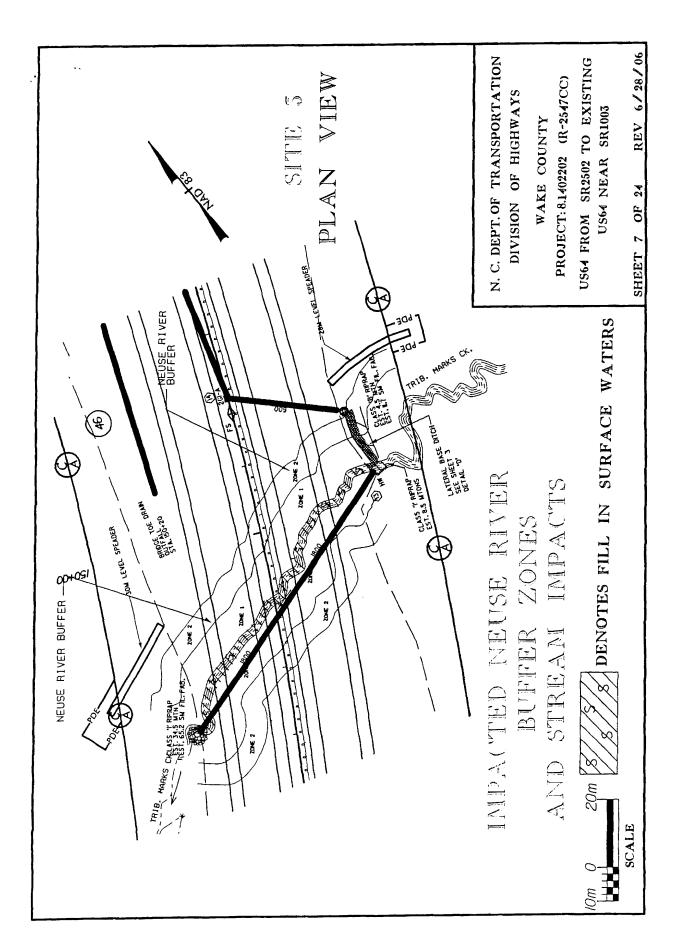
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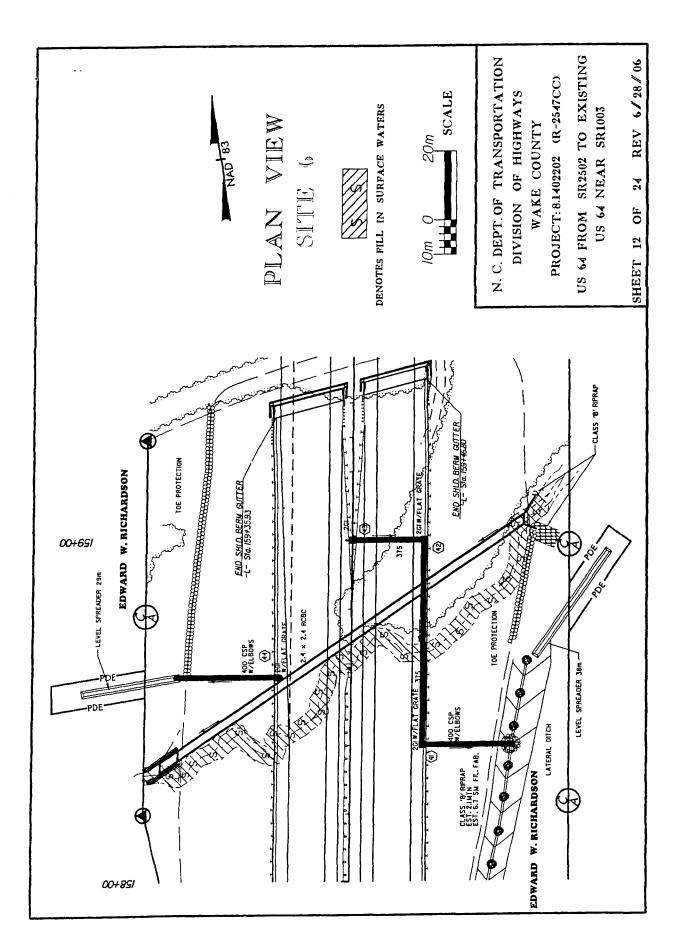
	BUFFER IMPACTS	Zone	(ha)				38 0.0672											53 1 844		4.36			
	BUFFE	Zone 1	(ha)			0.0275	0.0698	0.471	0.308	0.387	0.201	0.52	0.575	0.291	0.022			2 8953					
		Enclosed Channel	(m)				42	2		66	77	204	234					527			UNITY		
		Relocated Channel	(m)			1				80		76						219		PORTATION SHWAYS	WAKE COUNTY	2 (R-2547C)	
	4CTS	Existing Channel Impacted	(m)			5	2 5			203	137	316	310	3				984		FS		PROJECT: 8.1402202 (R-2547C)	
	SURFACE WATER IMPACTS	Temp. Fill In SW	(ha)															0	6)		PROJEC	
	SURFACE V	Fill In SW (Pond)	(ha)	0.44	0.217	0.012			0.315									0.984					
		Fill In SW (Natural)	(ha)			0.0003	0.002			0.033	0.004	0.023	0.019	0.0004				0.0819	06.0	1			
SUMMARY	2	Mechanized Clearing (Method III)	(ha)			0.048			0.015	0.003	0.003	0.059	0.026	0.079	0.059			0.292	0.72				
IMPACT SU	NO IMPACI	ion	(ha)			-				1	100	0.019	0.003	1	†			0.022	0.05				
IM	WEILE	Fill	(na)		1	0.0121			+	†			7,500	0.2/4				0.2861	l				
		sp	(na)			0.427			0.040	0.033	0.030	0.450	0.400	0.0103	0.633			2.0825	5.15				
		Structure Size	1000	N/A	NA	3 @ 26m BRIDGE	1800 RCP	1050 HCP	350 BCP	1800 BCP	8B 134+40/137 .1 - 1500 BCP DON DCP	1650 RCP	10 144/147+80 -1 - 2@27m 1@36 2@23 5m	17/18+40 -Y1011 @ 24m 2 @ 17m BBIDG	י ע ביייי בי פי ייווי חווים			hectare/meter	acre/leet				
		Station (From/To)	200000000000000000000000000000000000000	2 95+95/96+62 -1 N/A	3 98+20/98+50 -L N/A			54 110/113 -L- 1050 HC	7 131/133 -1 -	T	134+40/137 -1 -	9 140/143 -1 -	144/147+80-1	17/18+40 -Y101				S:					
		Site No.	Ī	- 12	6	4	2	K 4	7	8A	BB.	5	102	=				TOTALS					



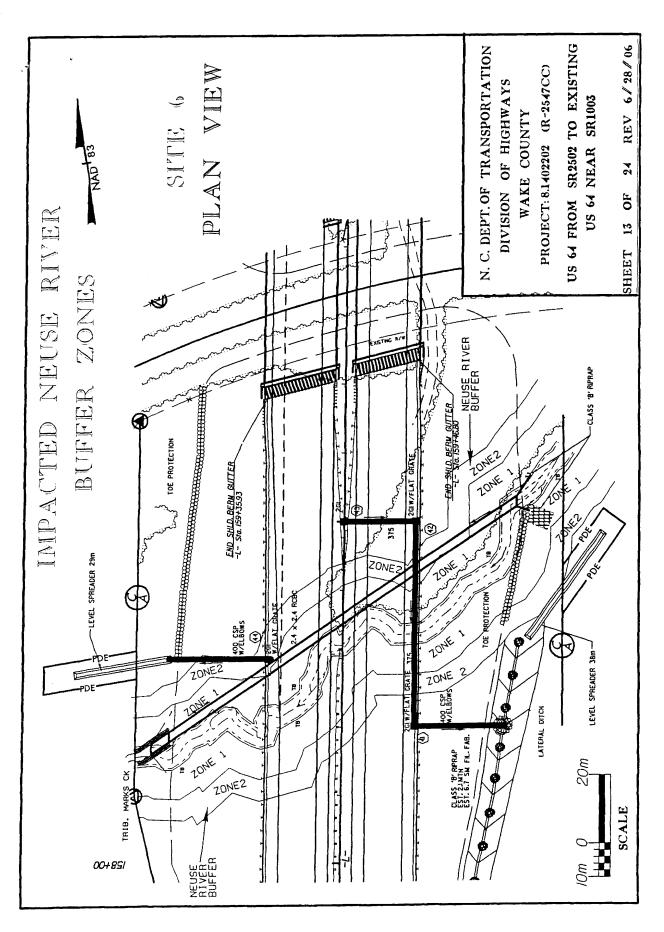
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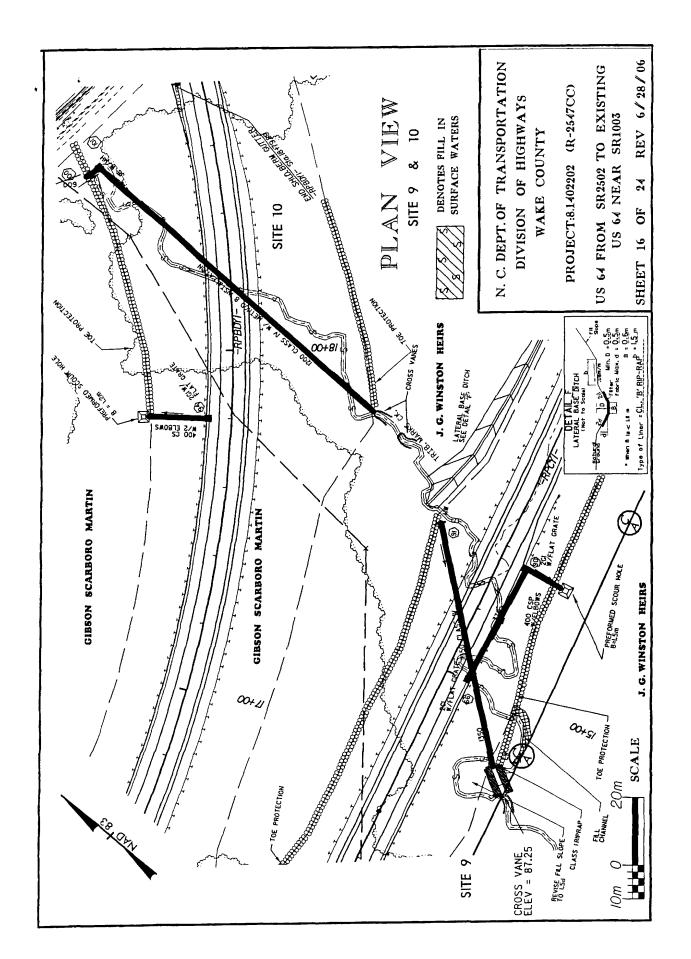
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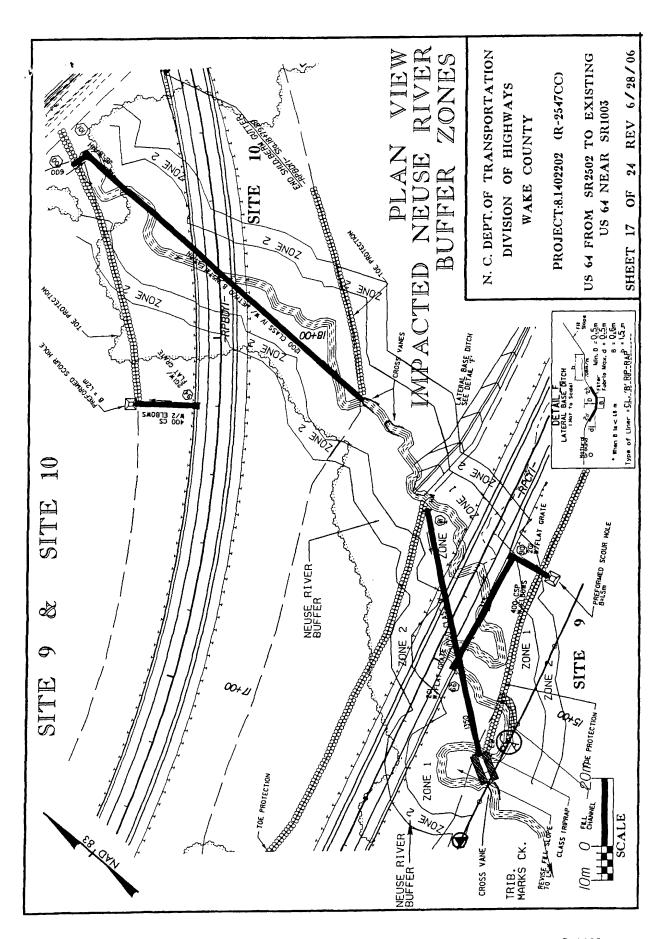
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Division of Water Quality

Dr. Greg Thorpe, PhD., Manager Planning and Environmental Branch North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina, 27699-1548

AUG 23 2006

DIVISION OF HIGHWAYS
PDEA-OFFICE OF NATURAL ENVIRONMENT

Subject: Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and NEUSE BUFFER RULES, with ADDITIONAL CONDITIONS for Proposed construction of US 64 Bypass in Wake County, Federal Aid Project No. NHF-DPI-0199, State Project No. 8.142202, TIP No. R-2547B/C.DWQ Project No. 20011689v.7

Dear Dr. Thorpe:

Attached hereto is a modification of Certification No. 3377 issued to The North Carolina Department of Transportation dated April 10, 2002. This modification is applicable only to the additional proposed activities as described in your application dated August 3, 2006. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated April 10, 2002 and all subsequent modifications still apply except where superceded by this certification.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Alan W. Klimek, P.E.

Director

Attachment (Modification to WQC#3377)

cc: Eric Alsmeyer, US Army Corps of Engineers, Raleigh Field Office Wilmington District US Army Corps of Engineers
Jon G. Nance, PE, Division 5 Engineer
Chris Murray, Division 5 Environmental Officer
Chris Militscher, Environmental Protection Agency
Travis Wilson, NC Wildlife Resources Commission
Gary Jordan, US Fish and Wildlife
Ecosystem Enhancement Program
DWQ Raleigh Regional Office copy
File Copy







Modification to the 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act and NEUSE BUFFER RULES with ADDITIONAL CONDITIONS

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Quality (DWQ) Regulations in 15 NCAC 2H .0500 and 15A NCAC 2B.0233. This certification authorized the NCDOT to impact an additional 0.001 acres of jurisdictional wetlands, 187 linear feet of jurisdictional streams, 0.012 acres of open waters, and 2,975 square feet of protected riparian buffers in Wake County. The project shall be constructed pursuant to the modification dated received August 3, 2006. The authorized impacts are as described below:

New Stream Impacts in the Neuse River Basin

Site	Riprap Impact to Perennial Stream (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
BA 19	15	15
BB 1	89	0
BB 3	66	0
C 4	7	0
C 10	10	0
Total	187	15

Total New Stream Impact for Project: 187 linear feet of Riprap.

New Wetland Impacts in the Neuse River Basin

Site	Fill (ac)	Total Wetland Impact (ac)
C 4	0.001	0.001
Total	0.001	0.001

Total Wetland Impact for Project: 0.001 acres.

New Open Water (Ponds/Lakes/Rivers/Sound/Ocean/etc) Impacts in the Neuse River Basin

Site	Riprap Impact in Open Waters (ac)	Total Impact to Open Waters (ac)
BB 1	0.007	0.007
BB 3	0.003	0.003
C 4	0.001	0.001
C 10	0.001	0.001
Total	0.012	0.012

Total New Open Water Impact for Project: 0.012 acres

New Neuse Riparian Buffer Impacts

Site	Zone 1 Impact (sq ft)	minus Wetlands in Zone 1 (sq ft)	= Zone 1 Buffers (not wetlands) (sq ft)	Zone 1 Buffer Mitigation Required (using 3:1 ratio)	Zone 2 Impact (sq ft)	minus Wetlands in Zone 2 (sq ft)	= Zone 2 Buffers (not wetlands) (sq ft)	Zone 2 Buffer Mitigation Required (using 1.5:1 ratio)
BA 18	1,457	0	1,457	4,371	1,518	0	1,518	2,277
Totals	1,457	0	1,457	4,371	1,518	0	1,518	2,277

Total New Buffer Impact for Project: 2,975 square feet.

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The application provides adequate assurance that the discharge of fill material into the waters of the Neuse River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the design changes that you submitted in your modified application dated August 3, 2006. All the authorized activities and conditions of certification associated with the original Water Quality Certification dated April 10, 2002 and subsequent modifications still apply except where superceded by this certification. Should your project change, you are required to notify the DWQ and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

Conditions of this Certification:

- 1. All other conditions written into previous Water Quality Certifications for this project still apply.
- 2. Compensatory mitigation for impacts to 1,457 square feet of protected riparian buffers in Zone 1 and 1,518 square feet of protected riparian buffers in Zone 2 shall be required. We understand that you have chosen to perform compensatory mitigation for impacts to protected buffers through use of the North Carolina Ecosystem Enhancement Program (EEP). Mitigation for unavoidable impacts to Neuse Riparian Buffers shall be provided in the Neuse River Basin and done in accordance with 15A NCAC 2B.0233. EEP has indicated in a letter dated July 31, 2006 that they will assume responsibility for satisfying the compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.
- 3. Compensatory mitigation for 15 linear feet of impact to streams is required. We understand that you have chosen to perform compensatory mitigation for impacts to streams through the North Carolina Ecosystem Enhancement Program (EEP), and that the EEP has agreed to implement the mitigation for the project. EEP has indicated in a letter dated July 31, 2006 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with the Tri-Party MOA signed on July 22, 2003 and the Dual-Party MOA signed on April 12, 2004.
- 4. All stormwater runoff shall be directed as sheetflow through stream buffers at nonerosive velocities, unless otherwise approved by this certification.
- 5. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular DOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated, with native woody species before the next growing season following completion of construction.

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- 6. Pursuant to NCAC15A 2B.0233(6), sediment and erosion control devices shall not be placed in Zone 1 of any Neuse Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
- 7. Riprap should not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. The use of rip-rap above the Normal High Water Mark shall be minimized except where authorized by this certification. Bioengineering boulders or structures should be properly designed, sized and installed.
- 8. Bridge deck drains should not discharge directly into the stream. Stormwater should be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of Stormwater Best Management Practices.
- 9. If concrete is used during construction, a dry work area should be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete should not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
- 10. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.
- 11. The dimension, pattern and profile of the stream above and below the crossing should not be modified. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
- 12. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
- 13. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
- 14. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials.
- 15. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
- 16. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 17. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If DWQ determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, DWQ may reevaluate and modify this certification.

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Division of Water Quality



- 18. A copy of this Water Quality Certification shall be posted on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager.
- 19. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- 20. Upon completion of the project, the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.
- 21. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 22. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
- 23. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 24. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored upon completion of the project.

Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit.





If this Certification is unacceptable to you have the right to an adjudicatory hearing upon written request within sixty (60) days following receipt of this Certification. This request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, N.C. 27699-6714. If modifications are made to an original Certification, you have the right to an adjudicatory hearing on the modifications upon written request within sixty (60) days following receipt of the Certification. Unless such demands are made, this Certification shall be final and binding.

This the 16th day of August 2006

DIVISION OF WATER QUALITY

Alan W. Klimek, P.E. Director

WQC No. 3377

Certification of Completion

DWQ Project No.:					
Applicant:					
Project Name:			······································		 .
Date of Issuance of Wetland Perr	mit:				<u>.</u> .
	Certificate of	Completion			
Upon completion of all work app subsequent modifications, the application of Water Quality, 1650 Mathe applicant, the applicant's authorithese.	cant is required to return	NC. 27699-1650.	This form may	be returned	to DW
Applicant's Certification			•		
· ppotential	, hereby state th	•		•	
Signature:	Date:				•
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